

VIRGINIA

Science and Engineering Profile

	Virginia	U.S.	Rank		Virginia	U.S.	Rank
Doctoral scientists, 1993	12,802	430,332	10	Total R&D performance, 1993 (millions)	\$2,939	\$161,427	13
Doctoral engineers, 1993	2,630	81,293	11	Industry R&D, 1993 (millions)	\$1,087	\$117,622	21
S&E doctorates awarded, 1995	663	26,482	12	Academic R&D, 1994 (millions)	\$436	\$20,573	15
of which, in engineering	28%	23%		of which, in life sciences	51%	55%	
in life sciences	21%	24%		in engineering	18%	16%	
in social sciences	13%	15%		in environmental sciences	13%	7%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	654	36,143	16	expenditures, 1993 (millions)	\$3,822	\$163,994	11
S&E graduate students, 1994				Number of SBIR awards, 1990-94	960	18,023	3
in doctorate-granting institutions	12,353	438,694	10	Patents issued to state residents, 1995	822	55,717	21
Population, 1995 (000s)	6,618	262,755	12	Gross state product, 1992 (billions)	\$153.8	\$5,994.1	12
Civilian labor force, 1995 (000s)	3,496	132,281	12	of which, agriculture	1%	2%	
Personal income per capita, 1995	\$23,597	\$22,788	15	manufacturing, mining, construction	21%	23%	
Federal spending				transportation, communication, utilities	9%	9%	
Total expenditures, 1995 (millions)	\$51,305	\$1,326,294	6	wholesale and retail trade	14%	16%	
R&D obligations, 1994 (millions)	\$3,730	\$65,654	4	finance, insurance, real estate	16%	18%	
				services	19%	20%	
				government	20%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development in Virginia by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	3,729,683	1,381,817	215,819	1,875,922	195,799	56,060	4,266	4
Department of Agriculture	11,419	1,549	0	50	8,854	966	0	37
Department of Commerce	32,506	8,254	0	20,055	3,915	149	133	8
Department of Defense	2,635,027	970,955	158,590	1,453,218	27,616	24,648	0	3
Department of Energy	76,133	12,619	43,809	10,510	9,115	80	0	17
Dept. of Health & Human Services	149,767	107	0	42,995	96,438	8,857	1,370	19
Department of the Interior	56,036	43,916	0	10,941	1,174	5	0	1
Department of Transportation	52,670	8,043	13,327	28,247	1,723	0	1,330	3
Environmental Protection Agency	37,979	0	0	35,782	764	0	1,433	4
Nat'l Aeronautics & Space Admin.	635,300	333,541	0	270,723	19,487	11,549	0	5
National Science Foundation	42,846	2,833	93	3,401	26,713	9,806	0	17
State rank	4	4	6	6	19	11	17	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.